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(54) Position tracking

(57) A position signaling is usable in connection with an image guided surgery system. A plurality of infrared emitters (228a-d) are mounted on a reference object (226). The reference object is in turn attached to the rocker arm (28) of a head clamp (12). The head clamp includes a frame and a first head engaging pin secured to one side of the frame. The rocker arm includes two head engaging pins (30,32) and is movable in relation to the frame. The image guided surgery system uses the signals provided by the infrared emitters to determine and account for movement of the patient's head.

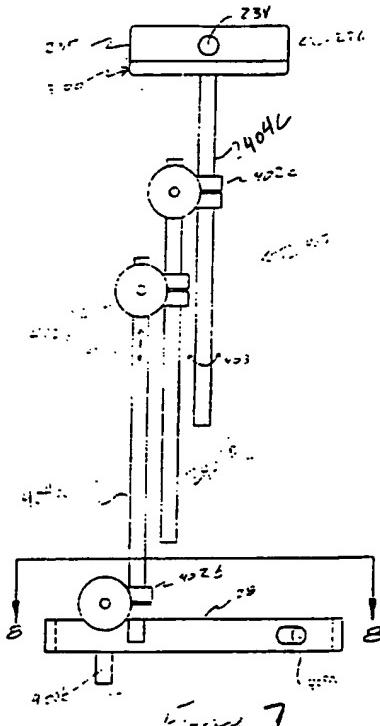


Figure 7

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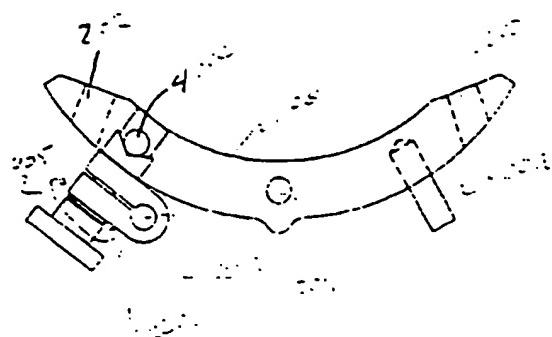


FIG 8



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## EUROPEAN SEARCH REPORT

Application Number  
EP 97 30 7554

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.8)
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The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	19 April 1999	Mayer, E	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 97 30 7554

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
 The members are as contained in the European Patent Office EDP file on  
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19-04-1999

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